

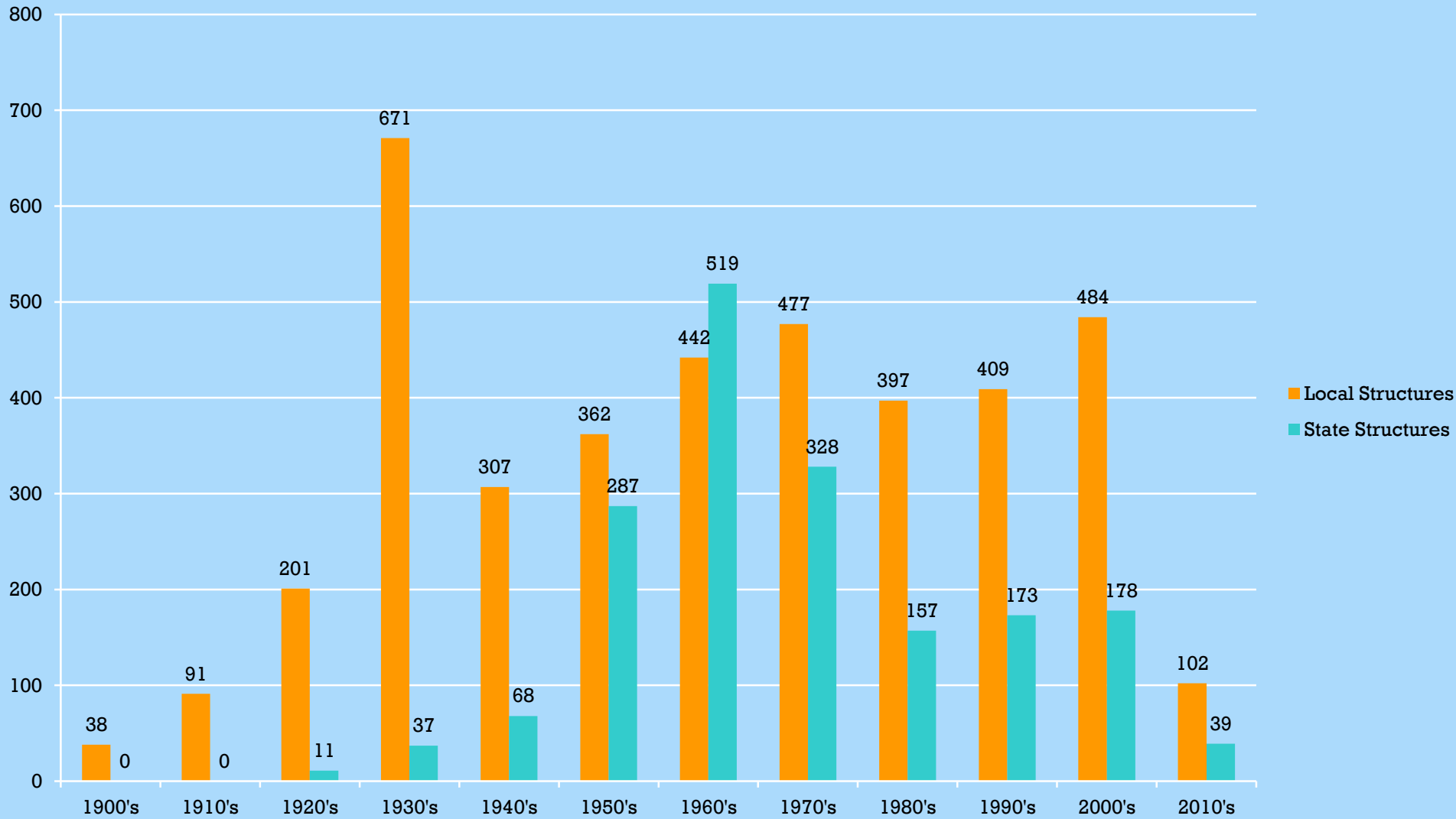
# **LOCAL BRIDGES' SMALL STRUCTURES & PIPE**

2014 Legislative Summer Study

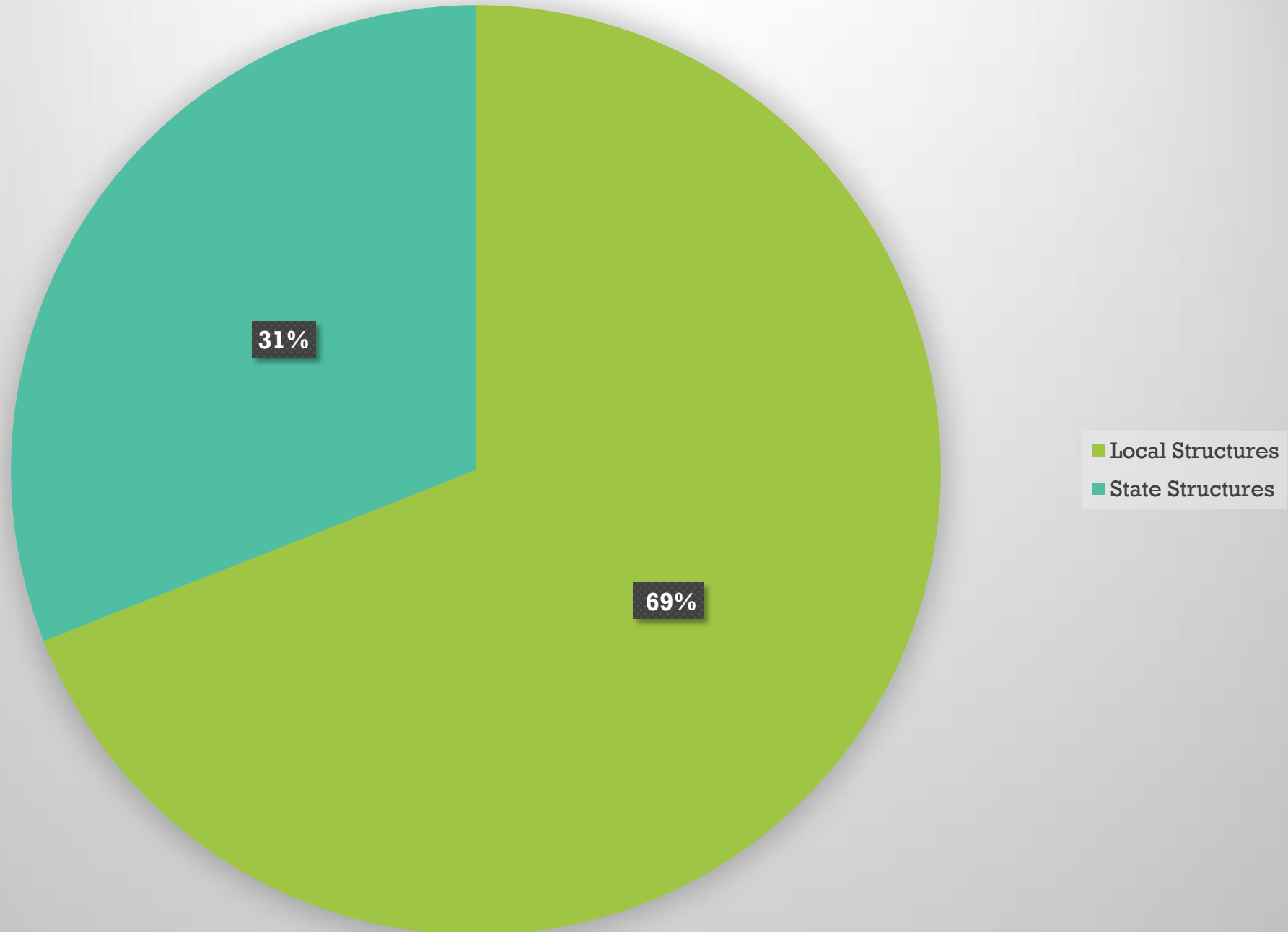
# OVERVIEW OF BRIDGE DEFICIENCY

- Back log of the current system
- Cost of Bridge Replacement
- Priority vs Wants
- Future of the Bridge Program?
- Bridges Programmed today are scheduled for 2026!
- Some Current Info We Have Gathered

# Bridges Built by Decade

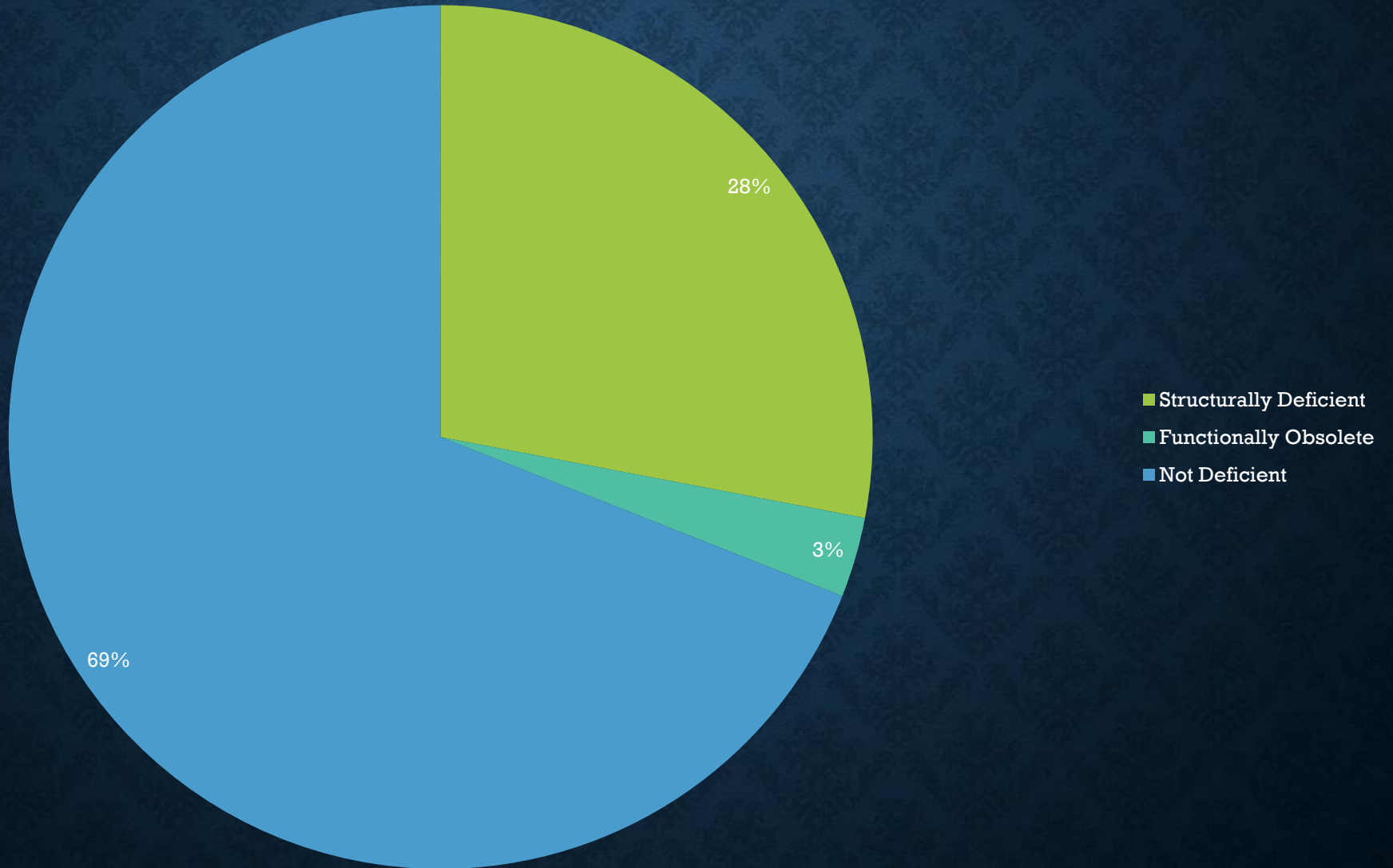


## Total Number of Structures in SD

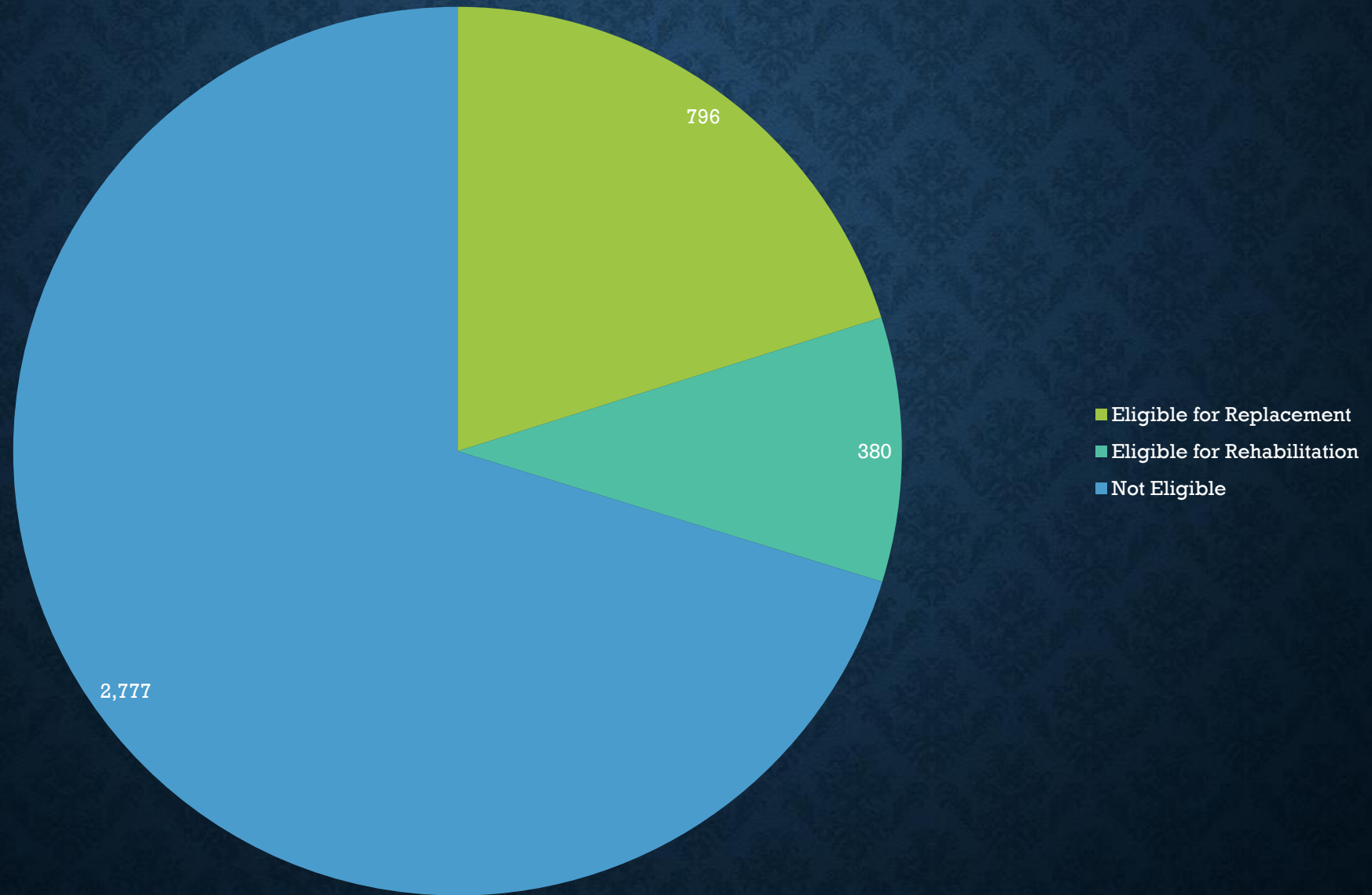




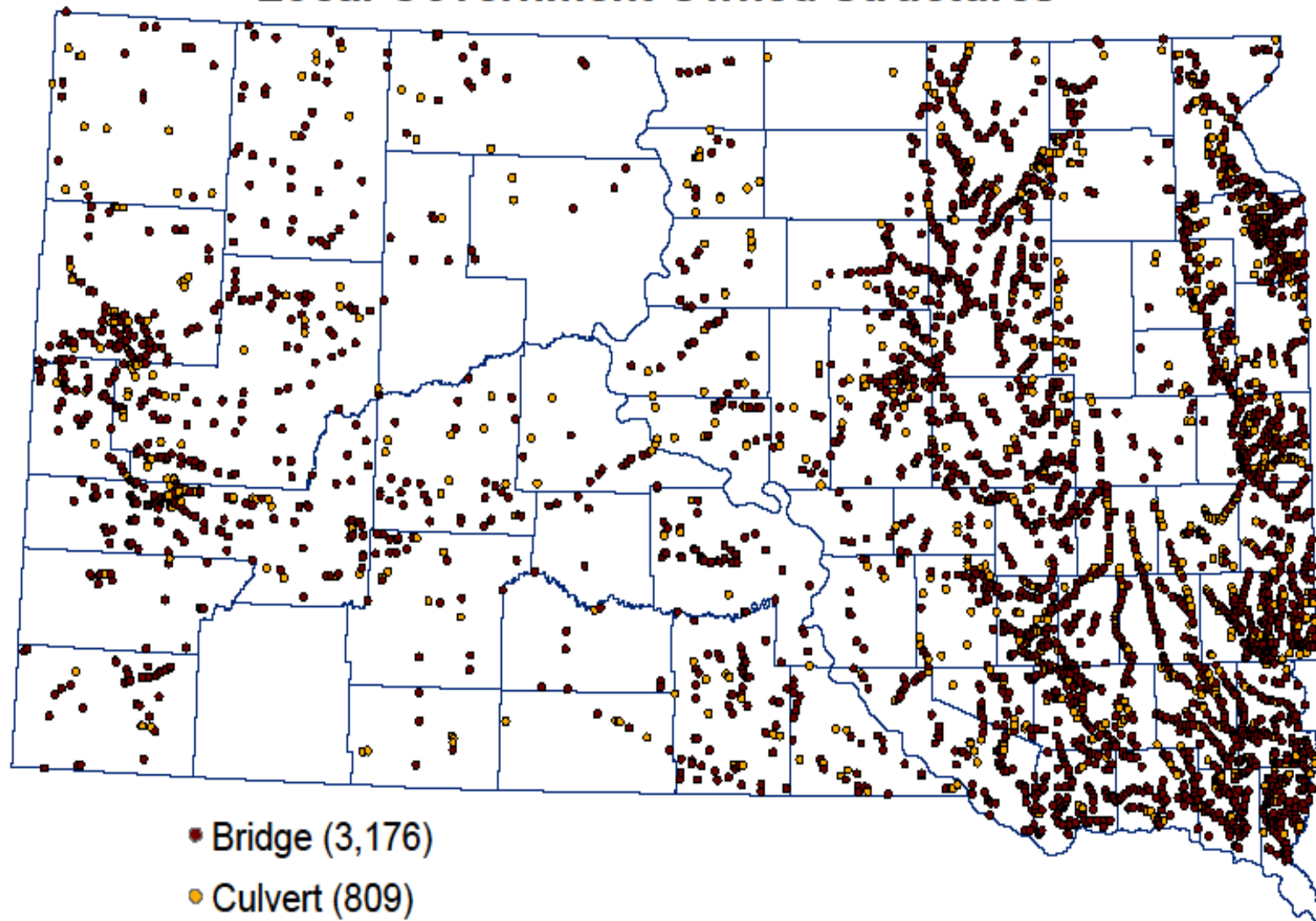
## Local Structures Structurally Deficient or Functionally Obsolete



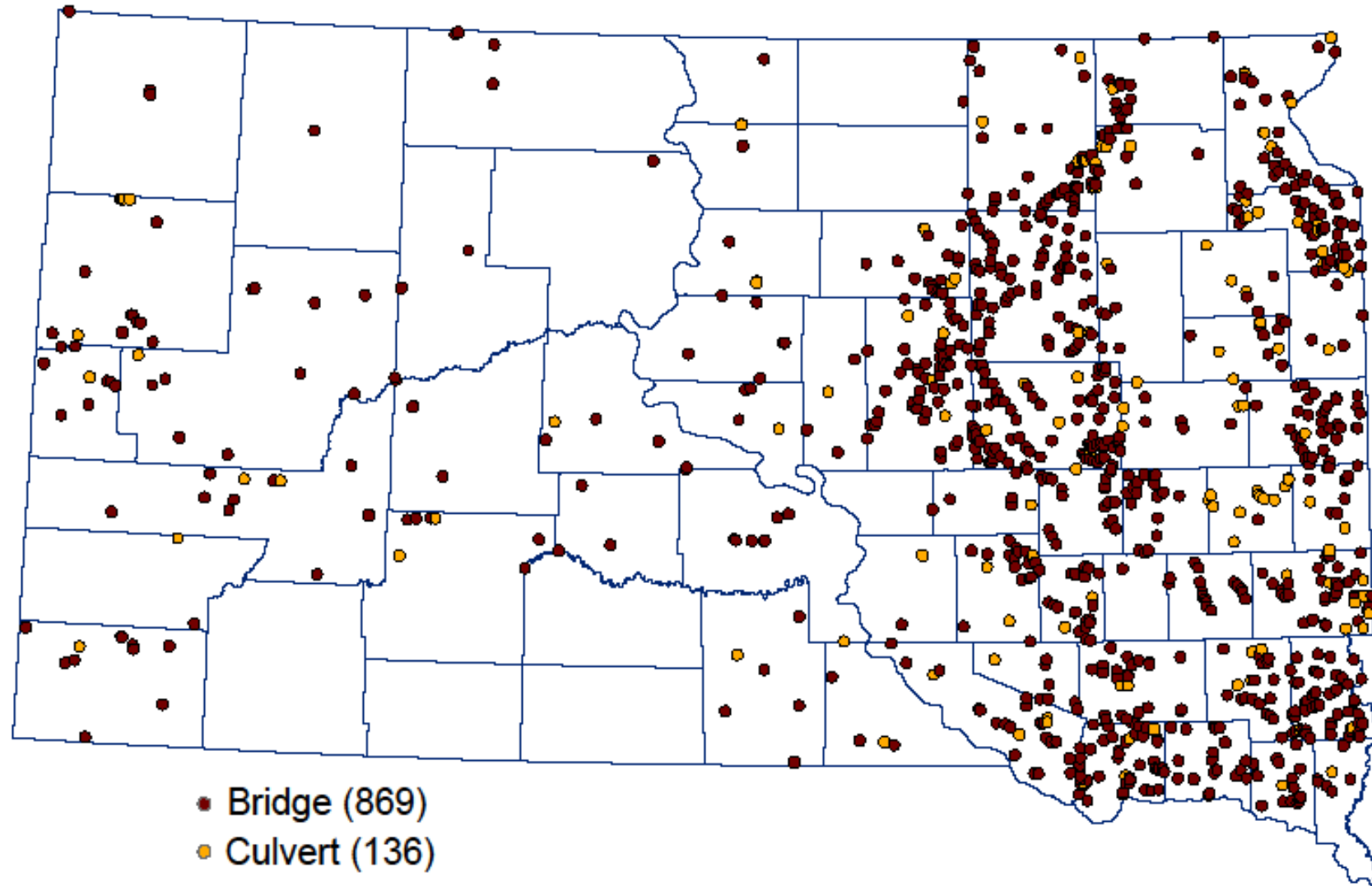
## Local Structures Eligible for Funding



## Local Government Owned Structures

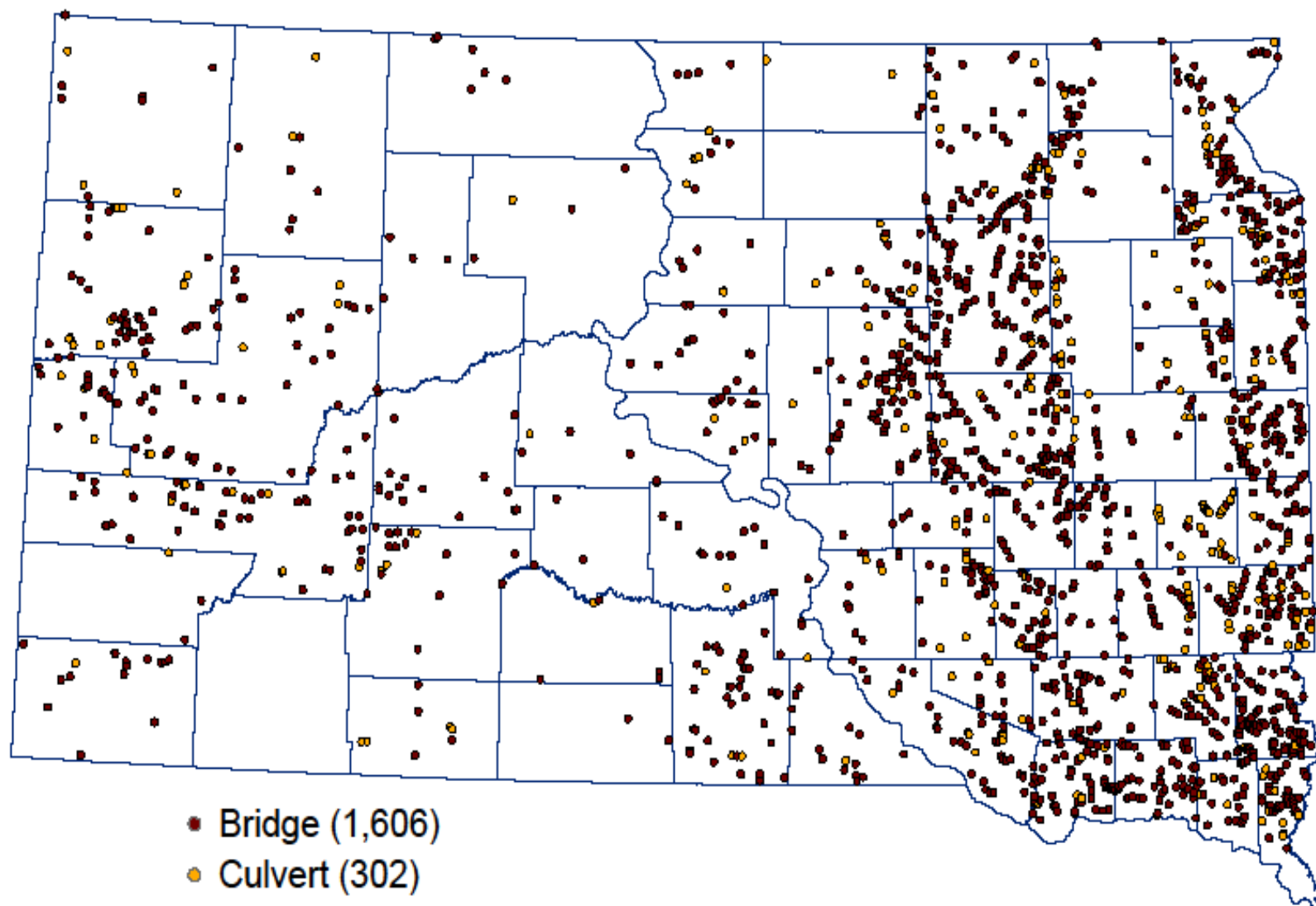


## Local Structures Greater Than 75 Years Old

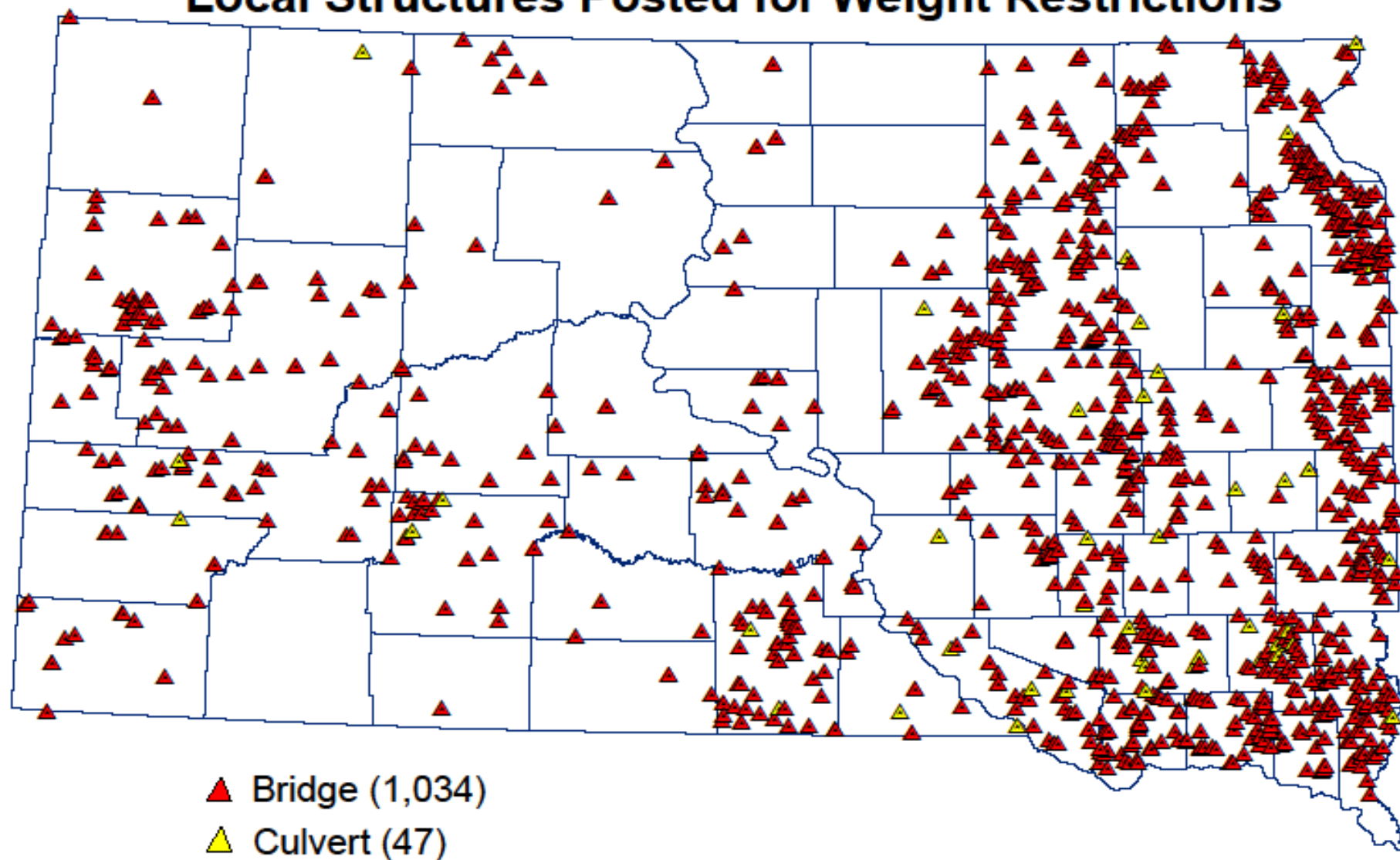




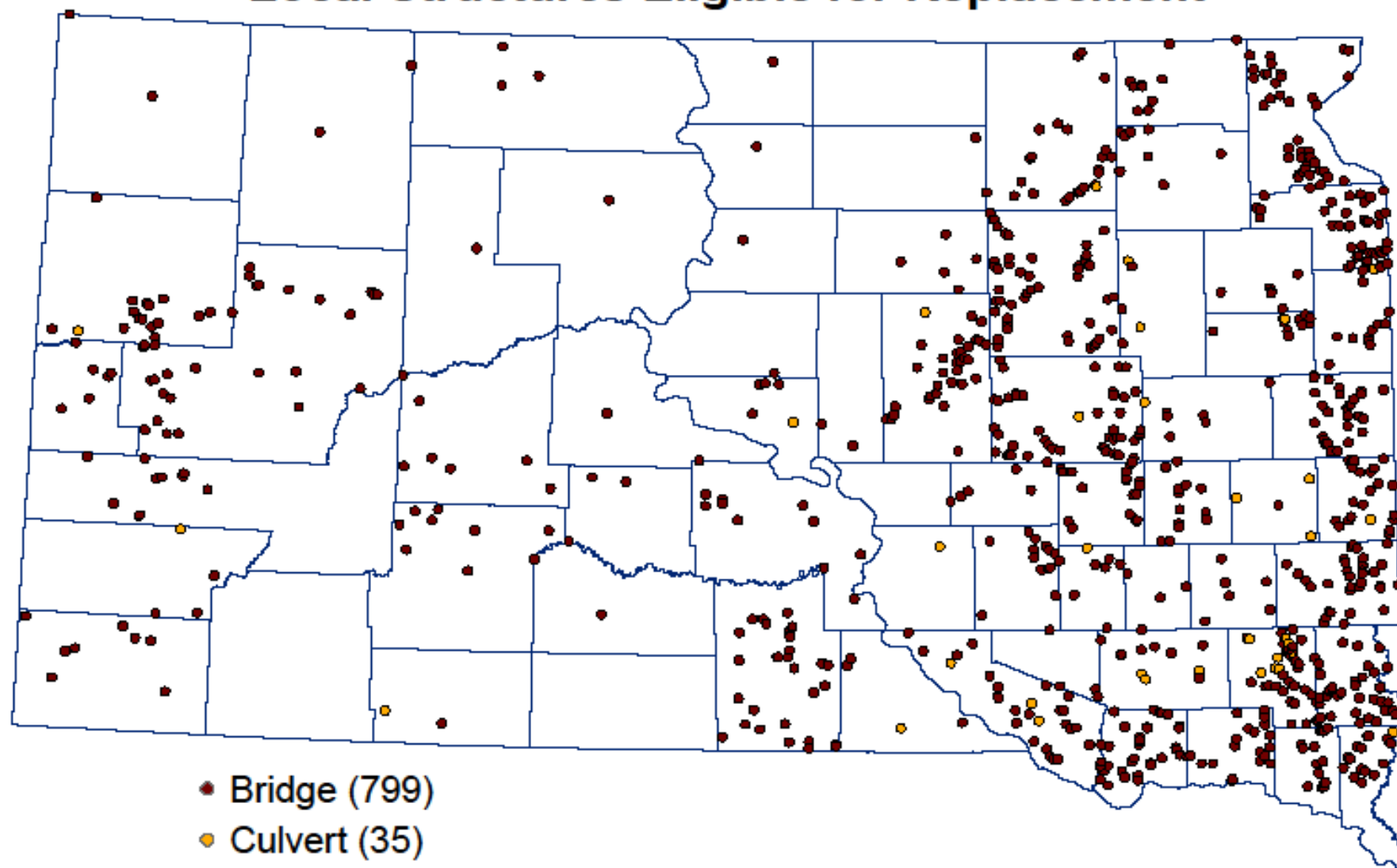
## Local Structures Greater Than 50 Years Old



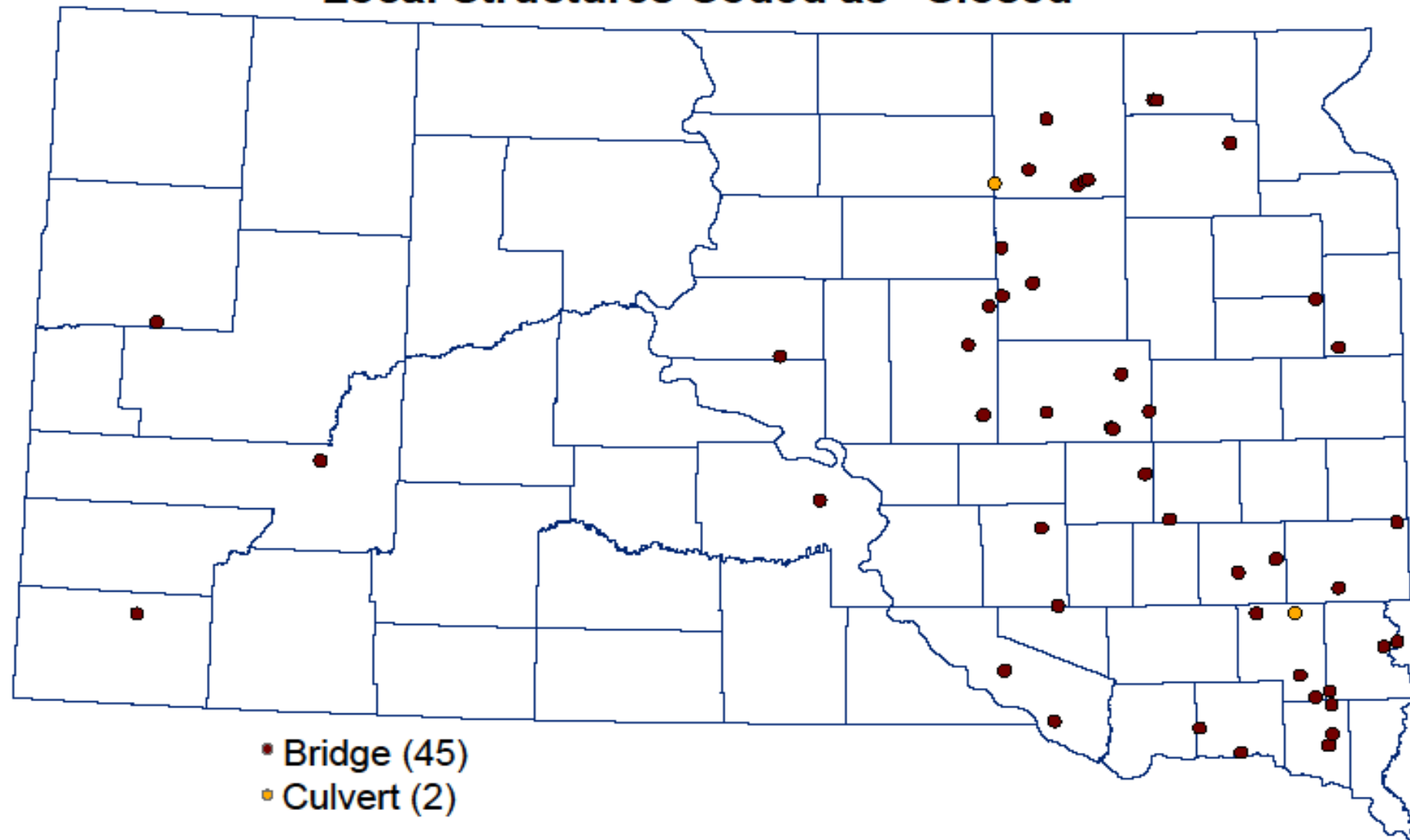
## Local Structures Posted for Weight Restrictions



## Local Structures Eligible for Replacement



## Local Structures Coded as "Closed"





# COUNTY BRIDGES

- 1045 Structures to be replaced
- Average Cost of \$230,000
- \$240,350,000 to replace
- Current Bridge Construction money for 2014 is \$5.9 million
- 26 Bridges could be replaced yearly
- Equates to 2.5% of deficient bridges

# BRIDGE <20 FT. (SMALL STRUCTURE) AND CULVERT INVENTORY

- **Total number of structures -** **1,820**
  - **Percentage Needing Improvement:** **49%** **(892 structures)**
  - **Percentage Closed:** **8%** **(145 structures)**
- **Culverts** **72,880\***
  - **Percentage Needing Replacement:** **15%** **(11,220 culverts)**
  - **Percentage Failed Causing Road Closure:** **1.5%** **(1,093 culverts)**



# **CURRENT LOCAL BRIDGE PROGRAMMING PROCESS BY THE DOT/ LOCAL GOV'T ASSISTANCE OFFICE**

- Current Local Bridge Programming Process by the DOT/ Local Gov't Assistance Office
- The initial prioritization is left up to each local government to choose which structures are or are not to be replaced.
- To be programmed in the STIP a structure must be eligible for federal funding. In order to qualify it must be “candidate” according to PONTIS, the federal inspection system. That means that the sufficiency rating is low enough AND the structure is either structurally deficient or functionally obsolete.

Once this is determined and a signed resolution from the county/city is turned into the Local Government Office, the project is then put in the 'queue', basically on a first come first served basis. The following items are factored:

- o Typically no more than one structure per year per local government is programmed, if that;
- o If a structure project comes in over \$1.0 million, that county/city would not be able to have one in the following year.



10 years ago, projects were programmed and let within 5 years. Currently a local government has to wait until 2026 for an open slot in the program. 10 years ago the \$7.9 million that is set aside for local structures provided enough funding to let 40 projects per year with several counties being able to have one in per year. Today that same amount only provides for about 20 to 25 structure replacements



